



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mouni G. Bawendi et al. Art Unit : 1641
Serial No. : 09/160,454 Examiner : M. Pham
Filed : September 24, 1998
Title : BIOLOGICAL APPLICATIONS OF QUANTUM DOTS

Commissioner for Patents
Washington, D.C. 20231

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RESPONSE TO THE OFFICE ACTION DATED FEBRUARY 3, 2000

In response to the office action dated February 3, 2000 ("Office Action"), please amend the application as set forth below.

In the Claims:

In claim 2, line 2, replace "the quantum dot" with --the semiconductor nanocrystal--.

In claim 11, line 3, replace "molecules," with --molecules.--.

In claim 28, line 28, replace "substantially monodisperse" with --monodisperse--.

In claim 31, line 2, replace "phosphine oxides," with --phosphine oxides, and--.

Please add new claims 49-61 as follows:

--49. A composition comprising:

a semiconductor nanocrystal having a selected band gap energy;

an overcoating layer disposed on the semiconductor nanocrystal, the overcoating layer comprised of a material having a band gap energy greater than that of the semiconductor nanocrystal;

an outer layer disposed about the overcoating layer, the outer layer comprising a plurality of ligands, each having at least one linking group for attachment of the ligand to the

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